Use Attainability Analysis

for

WBID 0383 Fishing River Part 1 (Sites 82-87)

Submitted by Tetra Tech, Inc

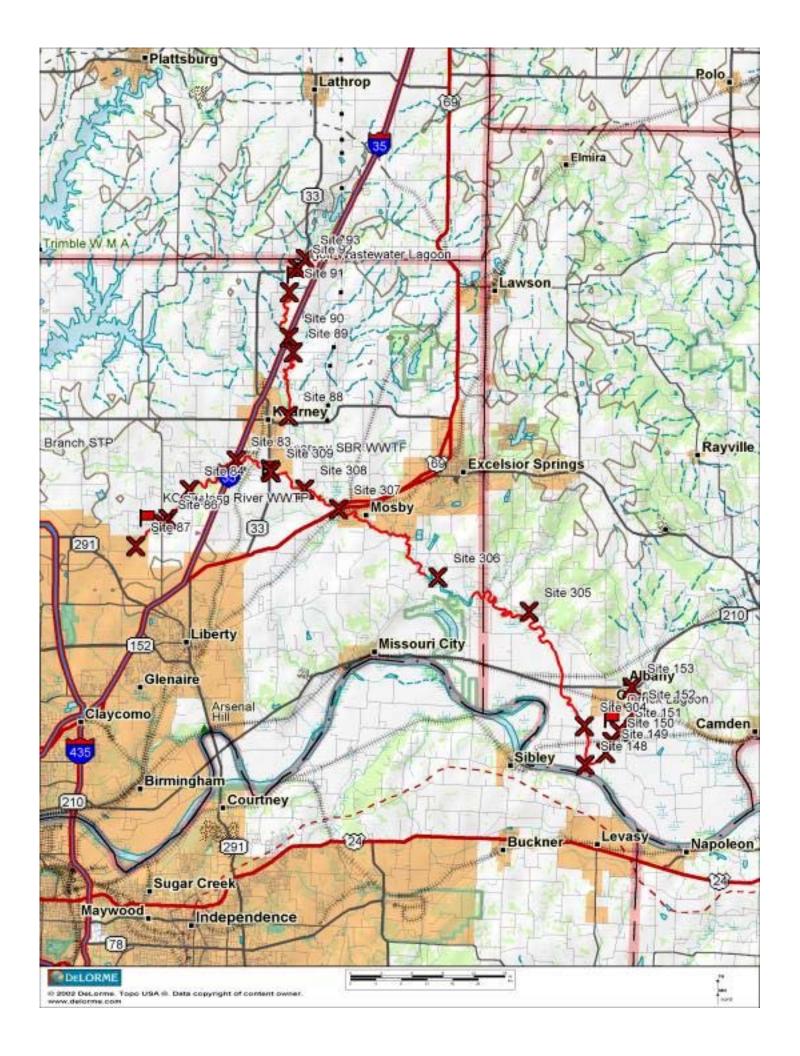
To Missouri Department of Natural Resources Water Protection Program

APR (6 7005

Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

Water Body Name: (from USGS 7.5' quad) FISHING BIVER: 82-87 : 364-368
8-digit HUC: 10300101
Missouri WBID #: 0383
County: CLAY
Upstream Legal Description:
Downstream Legal Description:
Upstream Coordinates: 5.60 82-87 (UGS 84, ddd.ddddd) 39.2925 -094.45418 31.33181 -094.35736
Downstream Coordinates: (UGS 84, ddd.ddddd) 39.34011 -094.36155 (31.20004 -014.14252)
Discharger Facility Name(s): KC, FISHINGRIVER WWTP
Discharger Permit Number(s): mD - Ø6483/2
Number of Sites Evaluated: 11
Name of Surveyor and Telephone Number: ADAM ACTTIC: 410-356-8993
Organization: TGTAN TOWN INC.
Position: ALLACEATE SUIGNIEST
, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UA latasheet is true and accurate.
Signed: Olaw Mith Date: 3 29/05



Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #:	82			Site Location I	-		(DITON WOOD)
Site GPS Coordinates:	39.34011/0	194.5	6155	70 m DS FROM 18533 BREDGE & BIG LOCUST TRE			
Date & Time: 3	W 3(14/05:	1530		Facility Name: Ki FISHING R. WITP			
Personnel: AVR ;	146			Permit Number	•		
Current Weather Condit	ions: SULLY '	7W		Weather Condi	tions for Past 7 d	iays: Si	MAY : TRY
Photo Ids: Upstream:	15396 Do	wnstre	am: /5	40C Oth	r: 1541- A		AROUXT STOCK
es Observed*:							
☐ Swimming	☐ Skin diving		□ sct	JBA diving	☐ Tubing		☐ Water skiing
☐ Wind surfing	☐ Kayaking		☐ Boa		□ Wading		☐ Rafting
☐ Hunting	A Trapping	AVR	D Fish	ing AVR	☐ None of t	he above	☐ Other:
Describe: (include numb	per of individuals rec	creatin	g, freque	ency of use, photo	-documentation	of evidence	of recreational uses
·	ASCUMED BES	F1493	77	ayon an c	WHOTELDER & C	CATEON	AVR
	, • 5						
mounding Condition		-					
rrounding Conditions of interest.)		1.					1
city/county parks	☐ Playgrounds		MDC con	nservation lands	☐ Urban are	as	☐ Campgrounds
City/county parks Boating accesses	☐ Playgrounds ☐ State parks		MDC con	nservation lands	☐ Urban are	as	1
city/county parks	☐ Playgrounds		MDC con	nservation lands	☐ Urban are	as	☐ Campgrounds
City/county parks Boating accesses	☐ Playgrounds ☐ State parks ☐ Fence		MDC con	nservation lands	☐ Urban are	as	☐ Campgrounds
Sof interest.) City/county parks Boating accesses No trespass sign	☐ Playgrounds ☐ State parks ☐ Fence		MDC con National f	nservation lands	☐ Urban are	eas iils	☐ Campgrounds
S of interest.) City/county parks Description Boating accesses No trespass sign dence of Human Us	☐ Playgrounds ☐ State parks ☐ Fence		MDC con National i	forests	☐ Urban are Nature tra	eas nils	☐ Campgrounds ☐ Stairs/walkwa
Sof interest.) City/county parks Boating accesses No trespass sign dence of Human Use Roads	☐ Playgrounds ☐ State parks ☐ Fence Se*: ☐ Foot paths/pri		MDC con National i	forests bes ock/platform	Urban are Nature tra Other:	eas nils	☐ Campgrounds ☐ Stairs/walkwa
Sof interest.) City/county parks Boating accesses No trespass sign dence of Human Use Roads Rope swings	☐ Playgrounds ☐ State parks ☐ Fence Se*: ☐ Foot paths/pri		MDC con National i	forests bes ock/platform	Urban are Nature tra Other:	eas nils	☐ Campgrounds ☐ Stairs/walkwa
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Boating accesses Boating accesses No trespass sign Roads Rope swings Other: Locations Map(s): er items that may be	☐ Playgrounds ☐ State parks ☐ Fence Se*: ☐ Camping Sites Attach a map of of interest. (Incl.)	ints s f entir	MDC con National isteep slop Do Fi re segments shotogra	nservation lands forests ock/platform re pit/ring ent with assess aphs)	Urban are Nature tra Other: Livestock NPDES I	eas Watering Discharge	☐ Campgrounds ☐ Stairs/walkwa
Boating accesses Boating accesses No trespass sign Roads Rope swings Cher: Locations Map(s): er items that may be me of this information is point to conditions that	☐ Playgrounds ☐ State parks ☐ Fence Se*: ☐ Camping Sites Attach a map of of interest. (Incl.) not intended to direneed further analysis	ints settly ints s or that	MDC con National isteep slop Do D Fi The segment shotograftuence a set effect is	nservation lands forests ock/platform re pit/ring ent with assess aphs) a decision on any another use.	Urban are Nature tra U Other: Urban are Nature tra U Neture tra Urban are	eas Watering Discharge	☐ Campgrounds ☐ Stairs/walkwa
Boating accesses Boating accesses No trespass sign Roads Rope swings Cher: Locations Map(s): er items that may be me of this information is point to conditions that	☐ Playgrounds ☐ State parks ☐ Fence Se*: ☐ Camping Site Attach a map of of interest. (Incl.	ints settly ints s or that	MDC con National isteep slop Do D Fi The segment shotograftuence a set effect is	nservation lands forests ock/platform re pit/ring ent with assess aphs) a decision on any another use.	Urban are Nature tra U Other: Urban are Nature tra U Neture tra Urban are	eas Watering Discharge	☐ Campgrounds ☐ Stairs/walkwa

September 29, 2004

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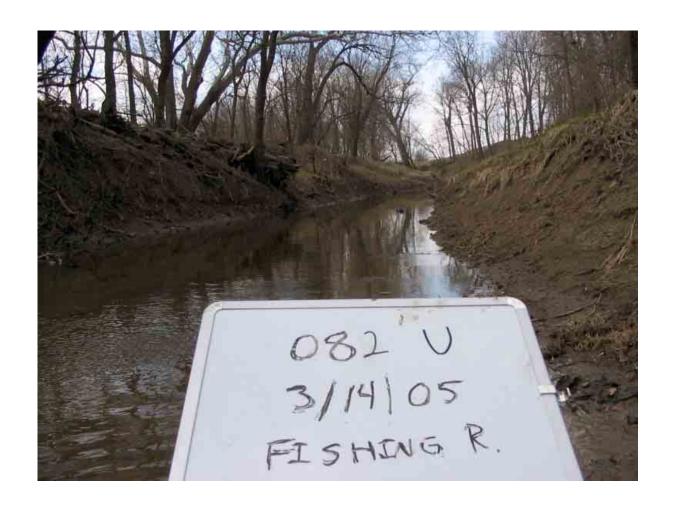
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Page Two – Da	ta Sheet B for	WBID#	;		Time Leng	<u>m</u>
Stream Morph Upstream V	ology: iew Physical D	imensions:	.6,1,2, .9,	.5	45sic 7.	5n-: 5m-
	idth (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth	(ft):
□ Run W	idth (ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth	(ft):
A Pool W	idth (ft): (0.8 m	Length (ft): $\hat{\phi}$	Avg. Depth	(ft): 0.B	Max. Depth	(ft): 1.2m
Flow P	esent? Yes	□ No		ft ² /sec)://tm(· · · · · · · · · · · · · · · · · · ·
ි) Downstrean	View Physica	Dimensions:	3,.6,.72,.	62.4		
	idth (ft):	Length (ft):	Avg. Depth		Max. Depth (ft):
Run W	idth (ft): 7,4,	Length (ft):	20m Avg. Depth	(ft): 0.5	3m. Max. Depth (ft):0.75 m
	idth (ft):	Length (ft):	Avg. Depth		Max. Depth (
Flow Pr	esent? Yes	□ No	Estimated (ft³/sec): 0	162mls.	·
<u> </u>	· · · · · · · · · · · · · · · · · · ·		2	16,33	48sec 43sec	7.5m, 7.5
	nese values should	add up to 100%.) 6 Gravel 0 0) % Sand 4 1) % Silt	485c C % Mud/Clay	% Bedroo
Vater Charact	eristics*: (Mark	all that apply.)				
Odor:	☐ Sewage	☐ Musky	☐ Chemical	None	☐ Other:	
Color:	☐ Clear	Green	X Gray	☐ Milky	☐ Other:	
Bottom Depos	it: 🗆 Sludge	☐ Solids	Fine sediments	□ None	☐ Other:	
Surface Depos	it: 🗆 Oil	□ Scum	□ Foam	None	☐ Other:	
This information of the comprehensive uncomprehensive uncompre	is not to be used so lerstanding of wate	lely for removal of r conditions. Conse	(including informat a recreational use desig equently, this information anditions that need furt	nation but rat on is not inter	ther is to provide a monded to directly influer	re ace a
, the undersig		irm to the best	of my knowledge, t	•		
Organization:	Tt - BIT	1	Date:Positio	S_{c}	II.	
	DC.J	I Ma	ni Bocks	$\sqrt{3}$	3-14-05	

September 29, 2004

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Data Sheet B - Site Characterization

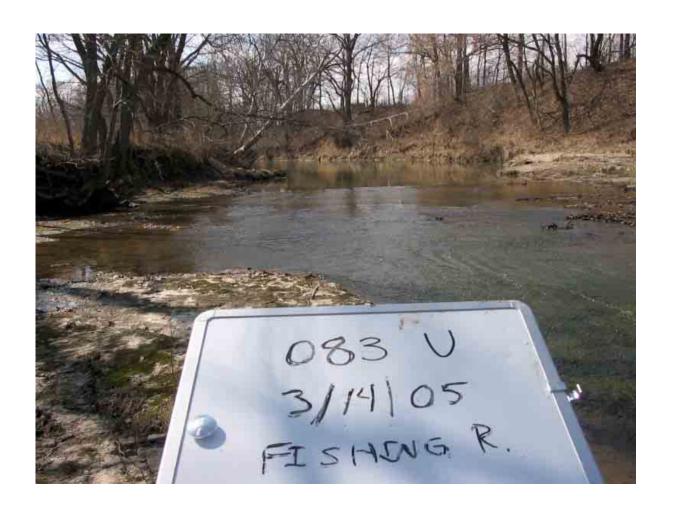
(A separate data sheet must be completed for each site)

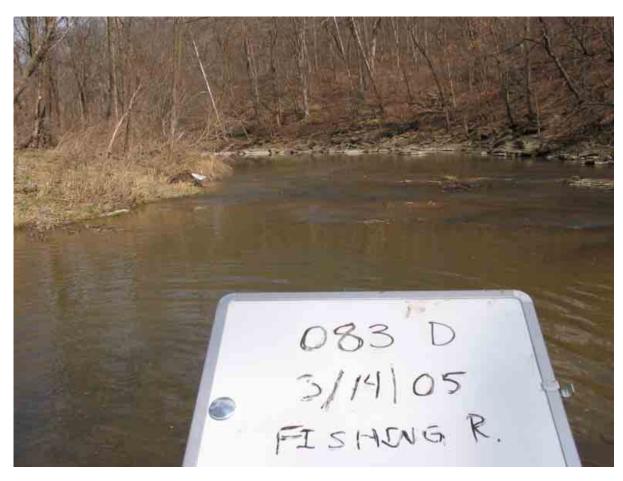
Missouri WBID #:	083		Site Location	on Des	cription:	M. TO DAILTENIA	
Site GPS Coordinates:	39,33870/0	94.39	347 6 BK4 1	Brig Sychials 130004CE			
Date & Time: 3/W	,			Facility Name: K, SHING RUNTP			
Personnel: AVR			Permit Nur	nber:			
Current Weather Condi	tions: Such	50)	Weather Co	onditio	ns for Past 7 days:	JUNY DRY	
Photo Ids: Upstream:	1538C Doi	vnstream	1: 1535 C	Other:	1536- ALGAE + PLO		
Jses Observed*:							
	☐ Skin diving		☐ SCUBA diving		☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking		☐ Boating		☐ Wading	☐ Rafting	
☐ Hunting	Trapping	visa D	Fishing AVA		☐ None of the above	☐ Other:	
urrounding Conditio	ns*: (Mark all that	promote	or impede recreation	onal use	es. Attach photos of eviden	nce or unusual	
	ons*: (Mark all that)	1.	or impede recreation		es. Attach photos of eviden	nce or unusual	
ems of interest.)		□мп				1	
ems of interest.) □ City/county parks	☐ Playgrounds	☐ MI	OC conservation lan		☐ Urban areas	☐ Campgrounds	
ems of interest.) ☐ City/county parks ☐ Boating accesses ☐ No trespass sign	☐ Playgrounds ☐ State parks Fence	☐ MI	OC conservation lan		☐ Urban areas ☐ Nature trails	☐ Campgrounds	
ems of interest.) ☐ City/county parks ☐ Boating accesses	☐ Playgrounds ☐ State parks Fence	□ MI	OC conservation lan	nds	☐ Urban areas ☐ Nature trails	☐ Campgrounds ☐ Stairs/walkway	
ems of interest.) City/county parks Boating accesses No trespass sign Cvidence of Human U	☐ Playgrounds ☐ State parks ☐ Fence	□ MI □ Nat □ Stee	OC conservation landitional forests ep slopes	nds	☐ Urban areas ☐ Nature trails ☐ Other:	☐ Campgrounds ☐ Stairs/walkway	
ems of interest.) City/county parks Boating accesses No trespass sign Vidence of Human U Roads	☐ Playgrounds ☐ State parks Fence Se*: ☐ Foot paths/pri ☐ Camping Sites	□ MI □ Nat □ Stee	OC conservation landinal forests ep slopes Dock/platform	nds	☐ Urban areas ☐ Nature trails ☐ Other: ☐ Livestock Watering	☐ Campgrounds ☐ Stairs/walkway	

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

20 - In Anni Sek 3-14-05

Pa	ge Two – l	Data She	et B for V	VBID#	63:						
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Stı	ream Morj Unstream	phology: View Ph	vsical Dir	ر. ا م مengions: ۸	4 63.00		7.0564	.ود	7.5%	15	~
	Riffle	Width (ft):	: 11.1 M	ر ار ر mensions: هر ره Length (ft):	20m	Avg. Depth	(ft): (). (6)	low Max	. Depth	(ft):	17
	□ Run	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max	. Depth	(ft):	
į	□ Pool	Width (ft)	•	Length (ft):		Avg. Depth			. Depth		
	Flow	Present?	Yes	□ No		Estimated (f		1.662 n	1/2		
	Downstre	am View	Physical	Dimensions:	0.63	D. 1					
	☐ Riffle	Width (ft):		Length (ft):	0,42	Avg. Depth	25, ,2, (ft):	Max	. Depth	(ft):	
	X Run	Width (ft)	: 15m	Length (ft):			(ft): 6, 151		. Depth	(ft): <i>(</i> ()	25m
	☐ Pool	Width (ft)	:	Length (ft):			(ft): ATV		. Depth	(ft):	25m
	A Flow	Present?	ίΣ⁄(Yes	□ No	-	Estimated (f	t³/sec): 0	. 317m/s			12.00
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Su		(These value) Cobble		dd up to 100%.) Gravel	% Sand	T	% Silt	% Mu	d/Clay	100	% Bedrock
			- 1								
Aq	uatic Veg	etation*:	(note amou	nt of vegetation	or algal grow	th at the asse	essment site)	12500	<u> </u>	<i></i>	
	Algae	t fla	icculan	k							
	· · · · · · · · · · · ·							12 mi	1,5)	
W	ater Chara	acteristic	s*: (Mark	all that apply.)							
	Odor:		Sewage	☐ Musky	☐ Che	mical	None	□0	ther:		
	Color:		Clear	⊠ Green	☑ Gra	у	□ Milky	0	ther:		
	Bottom De	posit:	Sludge	☐ Solids	Fine	sediments	□ None	0	ther:		·
	Surface De	posit:	Oil	☐ Scum	☐ Foa:	m	None	□ 0	ther:		ı.
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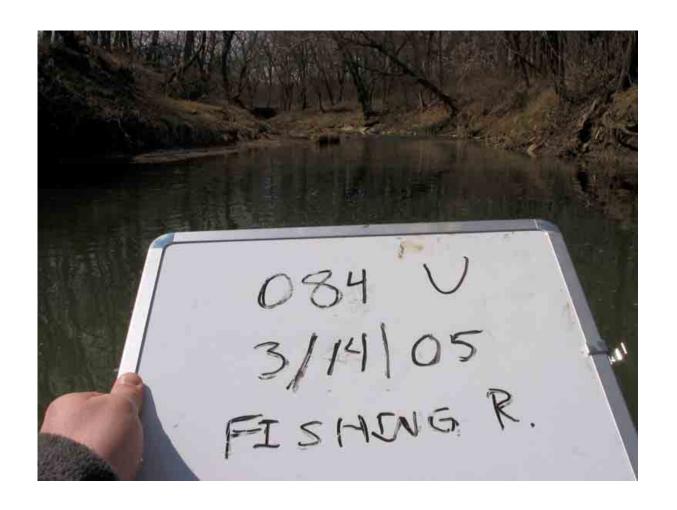




Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

	Missouri WBID #:	Site Location Des	Site Location Description:						
	Site GPS Coordinates: 3	<u> </u>	416716	off of	Facility Name: KC FIRTH R. WITP				
	Date & Time: 3/14/04			Facility Name:	Facility Name: KC KING P 144 578				
	Personnel: A A			Permit Number:	Permit Number:				
	Current Weather Condition	ons: Sury; 50	竹	Weather Condition	ns for Past 7 da	ays: 50	wy: Dry		
	Photo Ids: Upstream:	1534 C Other:	·)' (
Uses Observed*:									
	☐ Swimming	☐ Skin diving		SCUBA diving	☐ Tubing		☐ Water skiing		
	☐ Wind surfing	Kayaking /c/	WZ	Boating	☐ Wading		☐ Rafting		
	☐ Hunting	Trapping AV	10	Pishing AVR	☐ None of th		☐ Other:		
	Describe: (include numbe		cating, fre	quency of use, photo-d					
	AL MI	men dentività	1) 190	PEN ON WATER	- COUNT	EGAU AVS			
	·								
							·		
		·			· · · · · · · · · · · · · · · · · · ·				
	rrounding Condition ms of interest.)	s*: (Mark all that pr	romote or	impede recreational us	es. Attach phot	os of eviden	ce or unusual		
	☐ City/county parks	☐ Playgrounds	☐ MDC	conservation lands	☐ Urban are	AS	☐ Campgrounds		
	☐ Boating accesses	☐ State parks	☐ Natio	nal forests	☐ Nature trai	ils	☐ Stairs/walkway		
	☐ No trespass sign	☐ Fence	⊠ Steep	slopes /BANKS	M Other:	OLD BY-	COCE		
Ev	idence of Human Us	e*: ·	·						
	⊠ Roads	☐ Foot paths/prin	ts 🗆	l Dock/platform	☐ Livestock	Watering	□ RV / ATV Tracks		
	☐ Rope swings	☐ Camping Sites		Fire pit/ring	☐ NPDES D	ischarge	☐ Fishing Tackle		
	M Other: BEKR	L CANS							
	te Locations Map(s): ner items that may be o	Attach a map of o			nent sites clea	arly labele	d. Mark any		
*Soma	ome of this information is to y point to conditions that n	eed further analysis	or that eff	ce a decision on any or ect another use.		reational use	•		

Pa	ge Two – Da	ata Shee	t B for V	/BID #() }}	<u>/:</u>	Time	nt w.	Length 6.5m 5.0m 0.093	mls	
	eam Morpl Upstream V		sical Dir	nensions: .7	, 62 , g	5. Inin	Amt 1.17	5.2m D. O.	5,56m	
		Vidth (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth	(ft):	•
	□ Run V	Width (ft):		Length (ft):		Avg. Depth	(ft):	Max. Depth	(ft):	
	D Pool V	Vidth (ft):	12.3m	Length (ft): 🐊	on A	Avg. Depth	(ft): 0, 7º	14m Max. Depth	(ft): 25m 6 10	m
	□ Flow P	resent?	☐ Yes	□ NO NA TO	oslow I	Estimated-(#	itsec)!hmy	1.093 m/s		
	Downstrean	n View I	Physical	Dimensions: '	1,.2,	.6,.2,	.45			
	□ Riffle V	Vidth (ft):		Length (ft):		Avg. Depth ((ft):	Max. Depth	(ft):	
×	⊠ Run V	Vidth (ft):		Length (ft):	A	Avg. Depth	(ft):	Max. Depth	(ft): 0, Am (g	
E	DE POOLUS V	Vidth (ft):	13.5m	Length (ft): 2	om A	Avg. Depth	(ft): 0,3	Max. Depth	(ft): O.6	
	□ Flow P	resent?	☐ Yes	□ No	·	Estimated (fi	t ³ /sec):			
Su		These value Cobble		id up to 100%.) Gravel	% Sand	50	% Silt	% Mud/Clay	% Bedro	ck
Wa	ater Charac						*			
	Color:		Sewage Clear	☐ Musky ☐ Green	☐ Cher		None	Other:		\dashv
	Bottom Depo			□ Solids	⊠ Gray		☐ Milky	Other:		\dashv
	Surface Depo		Sludge			sediments	□ None	Other:		\dashv
Co			Oil ch additio	□ Scum	☐ Foan	····	None ion from in	Other:	form.	
con	prehensive un	derstandin	g of water	conditions. Conse	quently, this	s informatio	n is not inte	ther is to provide a monded to directly influe or that effect another t	ence a	
dat	tasheet is tr			m to the best o	of my kno		hat all inf	formation reporte	ed on this UAA	
Sig	$med: \underline{\mathcal{M}}$	um /	JUST			_Date:_	3/19	<i>IU</i>		
Org	ganization:_	<u>]e</u> DC:,	- Bi	Mari &	July	_Position	n: <u>JCI</u> (4 05	I.		
	Sentemb	er 29, 2004	, , , , , , , , , , , , , , , , , , ,	Mr. Diag	i Strem	HAGET	AT = RI	VN	Page 10	



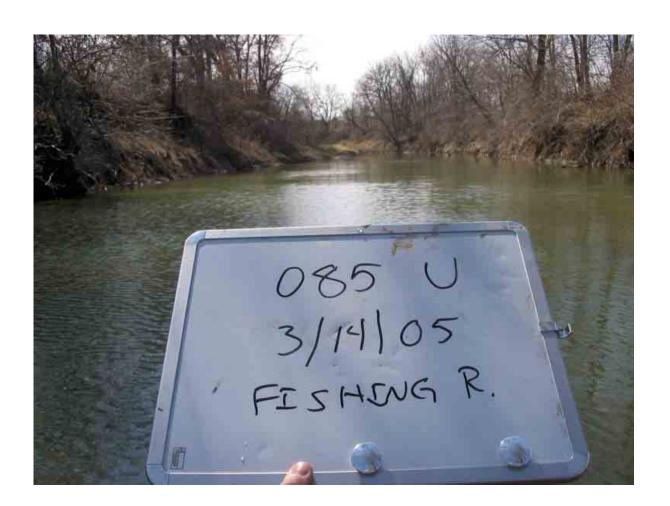


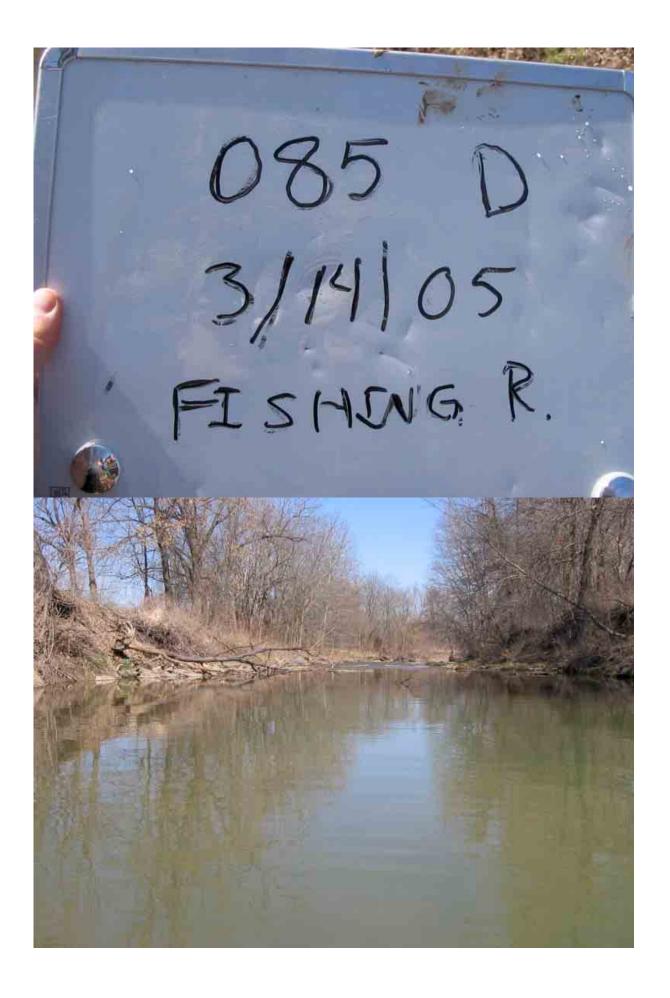
Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

					·	***		
	Missouri WBID #:	S			Site Location Description:			
	Site GPS Coordinates:	9,31313/094.	431560	AC=17)	300M AROM END OF GRAVEL LA.			
	Date & Time: 3/14/0	15 LAGO 12	१८०		Facility Name:	e: <i>V</i>	(e FISHALI R W	WTP
	Personnel: AMZ AMG				Permit Number	er:		
	Current Weather Condition	ons: Juney 4	15		Weather Cond	dition	us for Past 7 days: عادة	my Del
	Photo Ids: Upstream: /:	530C Do	wnstream	: 153	1-32 Oth	ther:		
Us	Uses Observed*:							
	☐ Swimming	☐ Skin diving	[SCU	BA diving	;	Tubing AVR	☐ Water skiing
	☐ Wind surfing	Kayaking/	4V2 100007 C	Boat	ting		☐ Wading	☐ Rafting
	☐ Hunting	· ·	_ k				☐ None of the above	☐ Other:
	Describe: (include number	er of individuals rec	creating,	freque	ncy of use, phot	to-do	cumentation of evidence	of recreational uses, etc.)
	AT AT A	LL Affender) T	D &*	-Pt4	YEEN ART	720		. 4/3
	HIEN DIEKLE	sh; leves a	CKDAR	HU	he e top ch	ir jn	ELL SAYS METGE	Other: of recreational uses, etc.) OURS FIFT, Albuman
	Sweys.							
	.,,	•			4	5		
							V - 10-7-10-10-10-10-10-10-10-10-10-10-10-10-10-	
Su iter	rrounding Condition ns of interest.)	s*: (Mark all that	promote	or imp	ede recreational	al use	s. Attach photos of eviden	ce or unusual
	☐ City/county parks	☐ Playgrounds		C con	nservation lands		☐ Urban areas	☐ Campgrounds
	☐ Boating accesses	☐ State parks	☐ Nat	ional f	forests		☐ Nature trails	☐ Stairs/walkway
	☐ No trespass sign	☐ Fence	⊠ Stee	p slop	es BAUK!		☐ Other:	
Ev	idence of Human Use	e*:	1_7	<u></u>		_		
	Roads	☐ Foot paths/pri	nts	□ Do	ock/platform		☐ Livestock Watering	□ RV / ATV Tracks
	Rope swings Rope	☐ Camping Site	s	□ Fir	e pit/ring		☐ NPDES Discharge	☐ Fishing Tackle
	M Other: (AWN)	· Heres						
	e Locations Map(s): her items that may be o					ssme	ent sites clearly labele	d. Mark any
*So may	Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use. OC = Admin July 3-1405							

Page Two - Data S	Sheet B for V	vbid # <u>085</u>	· :	8,.8,0	5,.91,.6	
Stream Morpholo Upstream View		nensions: \mathcal{N}	31.31298 W C	794.43156		
□ Riffle Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Pool Width	(ft): 15,5m	Length (ft): λ	Om Avg. Depth	(ft): 0.722m	Max. Depth (ft):	.lm
☐ Flow Preser			كثر آيد(نن Estimated (
Downstream Vi	ew Physical	Dimensions:\(\sime\)	139.313.25 W	074.4314	0 0.15,.75	, 15, 11,67
☐ Riffle Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Pool Width	(ft): 14.1m	Length (ft):	Om Avg. Depth	(ft): 0. 68W	Max. Depth (ft):	1.1m 1.2
☐ Flow Preser	nt? XYes	□ No NA	. Estimated (ft ³ /sec):	e sion i	
Substrate*: (These % Cobbl Aquatic Vegetatio Water Characteri	n*: (note amou	Gravel nt of vegetation or そ りん	% Sand U Coralgal growth at the assortion U U U	essment site)	96 Mud/Clay	% Bedrock
Odor:	☐ Sewage	☐ Musky	☐ Chemical	₩ None	☐ Other:	
Color:	☐ Clear	Green	∑ Gray	☐ Milky	☐ Other:	
Bottom Deposit:	☐ Sludge	☐ Solids	Fine sediments	□ None	☐ Other:	
Surface Deposit:	□ Oil	☐ Scum	□ Foam	V None	☐ Other:	
*This information is no comprehensive underst	of to be used sole anding of water on use analysis , hereby affin	ely for removal of conditions. Conso but may point to c	Date:	nation but rather in is not intended ther analysis or the	is to provide a more to directly influence a at effect another use. nation reported on	this UAA
Organization:		_	Positio	<u> </u>	_	





MISSOURI RECREATIONAL USE STREAM SURVEY FIELD AUDIT CHECKLIST

Evaluation Date: 03-14-200	5 .					
Audit Team Member(s):						
Name	Organization	Phone				
CHAD BARBOUR	Te-Outngs makes	410-356-8113				
JERAMY ROBEEN	TETRA TECH-EMI	314-892-6322 x32				
Site ID: &6	Stream Name: FISHING RI	ver				
Field Team Members						
1 ADAM RETTIC	3	5				
2 ANN MARIE GOETZE	4	6				
·	Other Observers Present During Ev	valuation:				
Name	Organization	Phone				

AUDIT CHECKLIST

GPS used to obtain fix at or near site?	(3)	N	N/A
GPS data recorded on field form?	8	N	N/A
Photographs of site taken (if appropriate)?	(3)	N	N/A
Placard with site ID printed on it is the first photograph?	(x)	N	N/A
Picture file number recorded on Field Form?	(3)	N	N/A
Mean channel width at X-site determined based on measurement?	Y	N	(N/A)
Area around site inspected for evidence of primary contact recreational and other human uses?	③	N	N/A
Pictures of evidence of uses taken?	Y	N	(N/A)
Picture file number recorded on field forms?	(Y)	N	N/A
Measured upstream channel width at representative transect?	(Ŷ)	N	N/A
Measured downstream channel width at representative transect?	(Y)	N	N/A
Measured average depth in upstream portion of the site?	(\widehat{Y})	N	N/A
Measured maximum depth in downstream portion of the site?	(Ŷ)	N	N/A
Was a reasonable effort made to locate deepest point at each site?	(3)	N	N/A
Velocity measured in the upstream portion of the site using a neutrally buoyant object along measured length timed and recorded correctly for at least three trials?	Y	N	N/A
Velocity measured in the downstream portion of the site using a neutrally buoyant object along measured length timed and recorded correctly for at least three trials?	Y	N	FI N/A
Does auditors assessment of substrate types and proportions at the site agree with that of the field team?	(P)	N	N/A
Were interviews conducted with available residents?	Y	(Ñ)	N/A
Are the field sheets filled out completely and signed at the end of the site assessment?	(Y)	N	N/A
Did the field team QC officer inspect the field forms for completion prior to leaving the site?	②	N	N/A
Overall, were the field sampling protocols followed correctly?	Ŷ	N	N/A

SIGNATURES		
Evaluator Evaluator	3-14-05 Date	 -
A. Mani Hocks	3-14-05	
Team Representative	Date	

FI- VELOCITY NOT MEASURFACE

DUE TO LOW VELOCITY - WILD.

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

De l'amonda de	<u>^2</u>		Site Location De	sociation.				
Missouri WBID #:	086		Site Location Description: TO HOURS W/BILL UMNS & BREDGE, NEXT TO HOURS W/BILL UMNS PLANT MENT TY: OF "A" 4 NF 125TH					
Site GPS Coordinates: 39,31070/-094,4362			PUND WELL THE OF A 4 NE 126TH					
Date & Time: 910 AM (ACCURAGE 1897)			Facility Name: Ke Flithin R WTP					
Personnel: AVR:	AG	į	Permit Number:					
Current Weather Condition	ons: Sury 40	L3	Weather Conditions for Past 7 days: SUNAY DAY					
Photo Ids: Upstream:		stream: 152	15 240 Other:					
Uses Observed*:								
	☐ Swimming ☐ Skin diving ☐ SCU			☐ Tubing	☐ Water skiing			
☐ Wind surfing	Kayaking/	□ Boa	ting	Mading Aur	☐ Rafting			
D Hunting UD AM	Trapping AR	Fish	ing AVK	☐ None of the above	☐ Other:			
Describe: (include numbe	r of individuals recre	ating, freque	ncy of use, photo-c	locumentation of evidence	of recreational uses, etc.)			
NIA								
·								
Surrounding Condition	s*: (Mark all that pro	omote or imp	ede recreational us	es. Attach photos of evider	ce or unusual			
items of interest.)	·			· · · · · · · · · · · · · · · · · · ·				
☐ City/county parks	☐ Playgrounds	☐ MDC con	servation lands	☐ Urban areas	☐ Campgrounds			
☐ Boating accesses	☐ State parks	□ National f	orests	☐ Nature trails	☐ Stairs/walkway			
☐ No trespass sign	☐ Fence	Steep slop	ies/BANKj	☐ Other:				
Evidence of Human Use	e *:		,		. •			
K Roads	Foot paths/prints	s 🗆 Do	ock/platform	☐ Livestock Watering	□ RV/ATV Tracks			
☐ Rope swings	☐ Camping Sites	□ Fi	re pit/ring	☐ NPDES Discharge	☐ Fishing Tackle			
K Other: BEAR								
								

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

OK : AMG 3-1475

Stream Morphology: **Upstream View Physical Dimensions:** Width (ft): Length (ft): ☐ Riffle Max. Depth (ft): Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): □ Run N Pool Width (ft): Length (ft): 21/4 Avg. Depth (ft):// Max. Depth (ft): 75M ⊠ Flow Estimated (ft³/sec): □ No Present? IN A XW Downstream View Physical Dimensions: ☐ Riffle Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): □ Run Avg. Depth (ft): Max. Depth (ft): Max. Depth (ft): 0.951~ Width (ft): Length (ft): 20M Avg. Depth (ft): X Pool Estimated (ft³/sec): ☑ Flow Present? ĭX Yes □ No Substrate*: (These values should add up to 100%.) % Cobble % Gravel % Sand **₹**0 % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: M None ☐ Chemical ☐ Sewage ☐ Musky ☐ Other: Color: ☑ Gray ☐ Clear ☑ Green ☐ Milky ☐ Other: **Bottom Deposit:** ☐ Sludge □ Solids [5] Fine sediments ☐ None ☐ Other: Surface Deposit: ☐ Oil ☐ Scum ☐ Foam None ☐ Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use. I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate Signed: Date:

Position:

September 29, 2004

Organization:

Supply.







MISSOURI RECREATIONAL USE STREAM SURVEY FIELD AUDIT CHECKLIST

·	Audit Team Membe	r(s):
Name	Organization	Phone
CHAR ARROR		
40am RETTEG	Tt	410-350-9997
ANN MARTE GOET	ZE [+-FUIL	410-350-8993 344-34-892-6322
Site ID: 037	Stream Name: PISHING	R
Field Team Members		
1 CHMD BARBUR	3	5
2 THRMAY ROBKEN	4	6
	Other Observers Present Durin	g Evaluation:
Name	Organization	Phone
CHO	TE- CULLING MELLY	410-356-870
TERMAY	TE-WEST MELLY	414-356-890 314-893-6322

AUDIT CHECKLIST

GPS used to obtain fix at or near site?	0	N	N/A
GPS data recorded on field form?	0	N	N/A
Photographs of site taken (if appropriate)?	1	N	N/A
Placard with site ID printed on it is the first photograph?	Ø	N	N/A
Picture file number recorded on Field Form?	(v)	N	N/A
Mean channel width at X-site determined based on measurement?	Ø	N	N/A
Area around site inspected for evidence of primary contact recreational and other human uses?	8	N	N/A
Pictures of evidence of uses taken?	(Y)	N	N/A
Picture file number recorded on field forms?	(A)	N	N/A
Measured upstream channel width at representative transect?	(3)	N	N/A
Measured downstream channel width at representative transect?	©	N	N/A
Measured average depth in upstream portion of the site?	80	N	N/A
Measured maximum depth in downstream portion of the site?	Ŷ	N	N/A
Was a reasonable effort made to locate deepest point at each site?	(P)	N	N/A
Velocity measured in the upstream portion of the site using a neutrally buoyant object along measured length timed and recorded correctly for at least three trials?	Ŷ	N	N/A
Velocity measured in the downstream portion of the site using a neutrally buoyant object along measured length timed and recorded correctly for at least three trials?	Y	N	N/A)
Does auditors assessment of substrate types and proportions at the site agree with that of the field team?	(Y)	N	N/A
Were interviews conducted with available residents?	Y	(N)	N/A
Are the field sheets filled out completely and signed at the end of the site assessment?	(Y)	N	N/A
Did the field team QC officer inspect the field forms for completion prior to leaving the site?	Ŷ	N	N/A
Overall, were the field sampling protocols followed correctly?	Ŷ	N	N/A

אנטיל עלון

SIGNATURES

Evaluator

Date '

Team Representative

Date

-2-

m.

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 8-7			Site Location D	Site Location Description:				
Site GPS Coordinates: N 34. 2 18 25 W 674, 45481			UNDER COWED PRIDER ON ROUTE					
Personnel: Char Gangork Jenamy Robert Current Weather Conditions: 37° SUNNY			Facility Name: KC. FISHING RIVER UNTP					
			Permit Number:					
			Weather Conditions for Past 7 days:					
Photo Ids: Upstream:	527 (000) Dow	nstream: T	Othe	Other: 1527- Rope suince				
Jses Observed*:	ed no Regul Saro	on fictures	15786	CGB				
Swimming	Swimming Skin diving SCU			Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	☐ Boa		Wading	☐ Rafting			
☐ Hunting	™Trapping	☑ Fish	.& ning	☐ None of the above	☐ Other:			
Describe: (include numb				- documentation of evidence	of recreational uses, etc.)			
FHOTO #1529 Rope	>WING UNDER	BAJOGÜ	· .	uses. Attach photos of evide				
THOTO #1524 Rope	>WING UNDER	oromote or im	· .	•				
urrounding Condition	>WING UNDER	oromote or im	pede recreational u	uses. Attach photos of evide	nce or unusual			
urrounding Condition ems of interest.) City/county parks	ns*: (Mark all that p	oromote or im	pede recreational unservation lands	uses. Attach photos of evide	nce or unusual □ Campgrounds			
urrounding Conditionems of interest.) City/county parks Boating accesses	ns*: (Mark all that p Playgrounds State parks	oromote or im MDC co	pede recreational unservation lands	uses. Attach photos of evide Urban areas Nature trails	nce or unusual □ Campgrounds			
urrounding Condition ems of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that p Playgrounds State parks	oromote or im MDC coi	pede recreational unservation lands	uses. Attach photos of evide Urban areas Nature trails	nce or unusual □ Campgrounds			
urrounding Conditionems of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that p Playgrounds State parks Fence	oromote or im MDC co National Steep slo	pede recreational unservation lands forests	□ Urban areas □ Nature trails □ Other:	nce or unusual Campgrounds Stairs/walkway			

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

TTR 03/14/05

Page Two – Data Sheet B for WBID # 87:

Stream Morpholog Upstream View	J¥	ensions: O	ত্রি, ৩.০৫১	5,075,0),5, C.45				
	Width (ft): 4.5 (m) Length (ft):			Avg. Depth (ft):			Max. Depth (ft):		
☑ Run Width	(ft): 4.5(m)	Length (ft):	30(m) A	Avg. Depth (ft): 0, 26			Max. Depth (ft): 0.5m		
☐ Pool Width	(ft):	Length (ft):	A	Avg. Depth (ft):		Max. Depth	(ft):		
☐ Flow Presen	it? 🗹 Yes	□ No	E	stimated (f	t³/sec): ~	in z	Yas lain=4	8~: 1	min =6.7.m
D							Yn; Inn=4	= 0.0	8 m/s
Downstream Vi ☐ Riffle Width		Length (ft):				<i>0</i> ;₃.	Max Denth	(6 4).	
Run Width		Length (ft):					Max. Depth (ft):		
Pool Width		Length (ft):	····	vg. Depth		CA >	Max. Depth (ft): 3-25 (m)		
☐ Flow Presen					t ³ /sec): F1 -		Max. Depth	(11):	
LI Flow Fresch	ur wries	LI NO		Stimated (1		Cauto	HOT MEASU	NO LO	UNELOCATY
Substrate*: (These						cels	a W INV		
10 % Cobble	e % (Bravel	% Sand	30	% Silt	1.0	% Mud/Clay	io	% Bedrock
Water Characteris	stics*: (Mark all	that apply.)							
Odor:	☐ Sewage	☐ Musky	☐ Chem	nical	☑ None	······································	☐ Other:		
Color:	□ Clear	☐ Green	☐ Gray	· · · · · · · · · · · · · · · · · · ·	☑ Milky		☐ Other:		
Bottom Deposit:	☐ Sludge	□ Solids	☑ Fine	sediments	□ None		☐ Other:		
Surface Deposit:	□ Oil	☐ Scum	☐ Foam	<u> </u>	None		Other:		
*This information is no comprehensive understandecision on the recreation	t to be used solel	y for removal o	of a recreationa sequently, this	l use design informatio	nation but rat on is not inter	her is t	o provide a mo directly influe	re nce a	
I, the undersigned datasheet is true a	nd accurate.	m to the bes	t of my kno				-	d on t	his UAA
Signed: MC	, M			_Date:	03-14-	3 <i>5</i>	·		_
Organization: 10			,	_ Position	n: <u>Assac</u>	SATE	Sezentis	.1	-
TTR-	03/14/08								





